

0062382

SAF-B00-004
Industrial Hygiene Sampling – Airborne
FINAL DATA

E:MAIL RESULTS TO:

Denise Pitts

N/A
INITIAL/DATE

COMPLETE COPY OF DATA PACKAGE TO:

Denise Pitts

X2-09

BZ 4/15/04
INITIAL/DATE

COMMENTS: (PLEASE INCLUDE THE FOLLOWING ON THE FAX COVER SHEET)

SDG

20040503

SAF-B00-004

Rad only ☒ Chem only Rad & Chem

☒ Complete

Partial

RECEIVED
AUG 17 2004
EDMC

WSCF
ANALYTICAL LABORATORY REPORT

Asbestos - Fiber Count

for

Bechtel Hanford, Inc.
MSIN: H9-02
Richland, WA 99352

Attention: J. Kessner MSIN: H9-02

Survey ID

Data Validator MK Hamilton

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Group#: 20040503
Report Date 13-apr-2004

w_0007/rev.6.3

B00-004

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Fluor Hanford, Inc.
MSIN: S3-28
Richland, WA 99352

Phone 373-7403

WSCF

ANALYTICAL LABORATORY REPORT

Attention:

J. Kessner MSIN: H9-02

Bechtel Hanford, Inc.

Group #: 20040503

Sample #	Client ID	Test Performed	Matrix	Reported Air Vol.(L)	Fibers/ RG Field	RG Result	Units	RDL	Analyst	Sampled	Received	Analyzed
W04I001635	J016R9	Airborne Fiber Conc.	FILTER	N/A	< RDL	BLANK	fibers/cm3	3 fibers	mkg	03/23/04	03/24/04	03/24/04
W04I001636	J016T0	Airborne Fiber Conc.	FILTER	N/A	< RDL	BLANK	fibers/cm3	3 fibers	mkg	03/23/04	03/24/04	03/24/04
W04I001637	J016T1	Airborne Fiber Conc.	FILTER	301	0.09	0.01	fibers/cm3	3 fibers	mkg	03/23/04	03/24/04	03/24/04
W04I001638	J016T2	Airborne Fiber Conc.	FILTER	298	0.03	< 0.01	fibers/cm3	3 fibers	mkg	03/23/04	03/24/04	03/24/04
W04I001639	J016T3	Airborne Fiber Conc.	FILTER	280	0.36	0.06	fibers/cm3	3 fibers	mkg	03/23/04	03/24/04	03/24/04

RDL=Reporting Detection Limit
RG = Result Range

Method LA-519-402 which was used is based on the approved NIOSH Analytical Method 7400, Rev. 4, Aug 1994.
The method does not distinguish between asbestos and non-asbestos fibers but uses 400-power phase contrast microscopy to count all particles with an overall length exceeding 5 microns and a length-to-width ratio of 3:1 or greater.
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* - Indicates results that have NOT been validated.

w_0007/rev.6.3

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The quality control data for calendar year 2004 is as follows:

Fibers/Field	Sr value
<= 0.03	1.00
>0.03 - 0.20	0.26
>0.20 - 0.50	0.20
>0.50 - 1.0	0.17
>1.0	0.14

WSCF

ANALYTICAL COMMENT REPORT

Attention: J. Kessner MSIN: H9-02

Group #: 20040503

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		Results have not been corrected for lab or field blanks unless otherwise noted in the Analytical Comment Report.
				Validated 4/13/04 by MK Hamilton, IH QA Coordinator.
W04I001639	J016T3	LOGSAMP		SAMPLES ACCEPTABLE FOR RECEIPT. REC'D AND LOGGED BY MK
				GRANT 3/24/04.
				MEDIA: 0.8u 25 MM MCE FILTERS

Lab Areas: VALGROUP - Group Validation
LOGSAMP - Login for Sample

VALTEST - Test Validation
LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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20040503

[illegible]

ERC/INDUSTRIAL HYGIENE CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

SIGN / PRINT NAMES / USE MILITARY TIME

Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
Mark Cranston / Mark Cranston	3-23-04 1705	MO425 / 426 Locked Room #4	3-23-04 1705
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
[Signature] Kevin Gustafson	3-24-04 0935	MT Stankovich [Signature]	3-24-04 0955
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
MT Stankovich [Signature]	3-24-04 0955	Weged, analyzed, stored MK Grant / MK Grant	3-24-04 0955
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
MO425 1635 + 1639 - net. to customer		SD Bolling [Signature]	3/29/04 1358
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
SD Bolling [Signature]	3/29/04 1400	SW GALE [Signature]	3-29-04 1400
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
<p>Remaining filter stored at WSCF fiber count lab for at least 3 months, then discarded at trash.</p>			
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
LABORATORY SECTION	Received By	Title	DATE / TIME
	MK Grant / MK Grant	HH Sample Custodian	3-24-04 0955

REVIEWED BY:

PRINT/SIGN NAME

DATE:

WSCF ANALYTICAL LABORATORY REPORT

Asbestos - Fiber Count

for

Bechtel Hanford, Inc.
MSIN: H9-02
Richland, WA 99352

Attention: J. Kessner MSIN: H9-02

Survey ID

Data Validator

MK Hamilton

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Group#: 20040515
Report Date 13-apr-2004

w_0007/rev.6.3

Fluor Hanford, Inc.
MSIN: S3-28
Richland, WA 99352

Phone 373-7403

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WSCF

ANALYTICAL LABORATORY REPORT

Attention: J. Kessner MSIN: H9-02 Bechtel Hanford, Inc. Group #: 20040515

Sample #	Client ID	Test Performed	Matrix	Reported Air Vol.(L)	Fibers/ RG Field	RG Result	Units	RDL	Analyst	Sampled	Received	Analyzed
W04I001647	J016P3	Airborne Fiber Conc.	FILTER	N/A	< RDL	BLANK	fibers/cm3	3 fibers	mkg	03/25/04	03/29/04	03/30/04
W04I001648	J016P4	Airborne Fiber Conc.	FILTER	N/A	< RDL	BLANK	fibers/cm3	3 fibers	mkg	03/25/04	03/29/04	03/30/04
W04I001649	J016P5	Airborne Fiber Conc.	FILTER	755	N/A	VOID	fibers/cm3	3 fibers	mkg	03/25/04	03/29/04	03/30/04
W04I001650	J017H5	Airborne Fiber Conc.	FILTER	922	N/A	VOID	fibers/cm3	3 fibers	mkg	03/25/04	03/29/04	03/30/04
W04I001651	J017J3	Airborne Fiber Conc.	FILTER	1165	0.05	< 0.01	fibers/cm3	3 fibers	mkg	03/25/04	03/29/04	03/30/04
W04I001652	J017H8	Airborne Fiber Conc.	FILTER	1773	0.08	< 0.005	fibers/cm3	3 fibers	mkg	03/25/04	03/29/04	03/30/04
W04I001653	J017H6	Airborne Fiber Conc.	FILTER	2715	N/A	VOID	fibers/cm3	3 fibers	mkg	03/25/04	03/29/04	03/30/04
W04I001654	J017J4	Airborne Fiber Conc.	FILTER	1668	0.07	< 0.005	fibers/cm3	3 fibers	mkg	03/25/04	03/29/04	03/30/04
W04I001655	J017J0	Airborne Fiber Conc.	FILTER	1673	N/A	VOID	fibers/cm3	3 fibers	mkg	03/25/04	03/29/04	03/30/04
W04I001656	J017H7	Airborne Fiber Conc.	FILTER	2724	N/A	VOID	fibers/cm3	3 fibers	mkg	03/25/04	03/29/04	03/30/04
W04I001657	J017J5	Airborne Fiber Conc.	FILTER	N/A	< RDL	BLANK	fibers/cm3	3 fibers	mkg	03/26/04	03/29/04	03/30/04
W04I001658	J017J6	Airborne Fiber Conc.	FILTER	N/A	< RDL	BLANK	fibers/cm3	3 fibers	mkg	03/26/04	03/29/04	03/30/04
W04I001659	J017J7	Airborne Fiber Conc.	FILTER	1604	< RDL	< 0.005	fibers/cm3	3 fibers	mkg	03/26/04	03/29/04	03/30/04

RDL=Reporting Detection Limit
RG = Result Range

Method LA-519-402 which was used is based on the approved NIOSH Analytical Method 7400, Rev. 4, Aug 1994. The method does not distinguish between asbestos and non-asbestos fibers but uses 400-power phase contrast microscopy to count all particles with an overall length exceeding 5 microns and a length-to-width ratio of 3:1 or greater. This report may not be reproduced, except in its entirety without the written approval of the WSCF Laboratory.

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w_0007/rev.6.3

The quality control data for calendar year 2004 is as follows:

Fibers/Field	Sr value
<= 0.03	1.00
>0.03 - 0.20	0.26
>0.20 - 0.50	0.20
>0.50 - 1.0	0.17
>1.0	0.14

WSCF

ANALYTICAL LABORATORY REPORT

Attention:

J. Kessner MSIN: H9-02

Bechtel Hanford, Inc.

Group #: 20040515

Sample #	Client ID	Test Performed	Matrix	Reported Air Vol.(L)	Fibers/ RG Field	RG Result	Units	RDL	Analyst	Sampled	Received	Analyzed
W04I001660	J017K5	Airborne Fiber Conc.	FILTER	736	< RDL	<	0.01	fibers/cm3	3 fibers mkg	03/26/04	03/29/04	03/30/04
W04I001661	J017J9	Airborne Fiber Conc.	FILTER	1612	0.10	<	0.005	fibers/cm3	3 fibers mkg	03/26/04	03/29/04	03/30/04
W04I001662	J017K0	Airborne Fiber Conc.	FILTER	1618	0.06	<	0.005	fibers/cm3	3 fibers mkg	03/26/04	03/29/04	03/30/04
W04I001663	J017K1	Airborne Fiber Conc.	FILTER	764	< RDL	<	0.01	fibers/cm3	3 fibers mkg	03/26/04	03/29/04	03/30/04
W04I001664	J017K2	Airborne Fiber Conc.	FILTER	742	< RDL	<	0.01	fibers/cm3	3 fibers mkg	03/26/04	03/29/04	03/30/04
W04I001665	J017K3	Airborne Fiber Conc.	FILTER	759	< RDL	<	0.01	fibers/cm3	3 fibers mkg	03/26/04	03/29/04	03/30/04
W04I001666	J017K4	Airborne Fiber Conc.	FILTER	768	0.03	<	0.01	fibers/cm3	3 fibers mkg	03/26/04	03/29/04	03/30/04

RDL=Reporting Detection Limit
RG = Result Range

* - Indicates results that have NOT been validated.

w_0007/rev.6.3

Method LA-519-402 which was used is based on the approved NIOSH Analytical Method 7400, Rev. 4, Aug 1994.
The method does not distinguish between asbestos and non-asbestos fibers but uses 400-power phase contrast microscopy to count all particles with an overall length exceeding 5 microns and a length-to-width ratio of 3:1 or greater.
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The quality control data for calendar year 2004 is as follows:

Fibers/Field	Sr value
<= 0.03	1.00
>0.03 - 0.20	0.26
>0.20 - 0.50	0.20
>0.50 - 1.0	0.17
>1.0	0.14

WSCF

ANALYTICAL COMMENT REPORT

Attention: J. Kessner MSIN: H9-02

Group #: 20040515

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		Results have not been corrected for lab or field blanks unless otherwise noted in the Analytical Comment Report.
				Validated 4/13/04 by MK Hamilton, IH QA Coordinator.
W04I001649	J016P5	TESTDATA	Airborne	SAMPLE VOID DUE TO PARTICULATE OVERLOAD.
W04I001650	J017H5	TESTDATA	Airborne	SAMPLE VOID DUE TO PARTICULATE OVERLOAD.
W04I001653	J017H6	TESTDATA	Airborne	SAMPLE VOID DUE TO PARTICULATE OVERLOAD.
W04I001655	J017J0	TESTDATA	Airborne	SAMPLE VOID DUE TO PARTICULATE OVERLOAD.
W04I001656	J017H7	TESTDATA	Airborne	SAMPLE VOID DUE TO PARTICULATE OVERLOAD.
W04I001666	J017K4	LOGSAMP		SAMPLES ACCEPTABLE FOR RECEIPT. REC'D BY SD BOLLING 3/29/04
				AND LOGGED BY MK GRANT 3/30/04.
				MEDIA: 0.8u 25 MM MCE FILTERS

Lab Areas: VALGROUP - Group Validation
LOGSAMP - Login for Sample

VALTEST - Test Validation
LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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w007a/1 Report #: 20040515

Report Date: 13-apr-2004

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20040 575

Bechtel Hanford, Inc.		ERC/INDUSTRIAL HYGIENE CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST									
Collector: <i>Mark Cranston</i>	Company Contact Henry W. Ruby		Telephone No. 373-5600		Project Coordinator Joan H. Kessner			Data Turnaround <i>24 hr</i>			
Payroll #: <i>73450</i>	Sampling Location <i>100N//1304N Emergency Dump Tank</i>		SPECIAL INSTRUCTIONS All relevant COAs must be provided: <i>R1304N J452</i>			SAF No. B00-004; B00-005			Method of Shipment <i>Hand Deliver</i>		
Type of Sample: <i>Area, Asbestos</i>			ANALYSIS METHOD (SPECIFIC): <i>NIOSH 7400 (Asbestos)</i>			Bill of Lading/Air Bill No. <i>N/A</i>					
Shipped To: <i>W S C F</i>											
POSSIBLE SAMPLE HAZARD/REMARKS <i>Asbestos</i>		MATRIX A - AIR WI - WIPE X - OTHER		Preservation (ie., cooling required, etc.)		No		No			
Special Handling and/or Storage <i>N/A</i>											
SAMPLE ANALYSIS					Asbestos Airborne	Lead Airborne					
SAMPLE NO.	MATRIX	SAMPLE DATE	VOLUME (L)	Comments							
<i>1647 J016P3</i>	<i>A</i>	<i>3-25-04</i>	<i>Blank</i>	<i>Blank</i>	<i>X</i>						
<i>1648 J016P4</i>	<i>A</i>	<i>3-25-04</i>	<i>Blank</i>	<i>Blank</i>	<i>X</i>						
<i>1649 J016P5</i>	<i>A</i>	<i>3-25-04</i>	<i>755</i>	<i>Area</i>	<i>X</i>						
<i>1650 J017H5</i>	<i>A</i>	<i>3-25-04</i>	<i>922</i>	<i>Area</i>	<i>X</i>						
<i>1651 J017J3</i>	<i>A</i>	<i>3-25-04</i>	<i>1165</i>	<i>Area</i>	<i>X</i>						
<i>1652 J017H8</i>	<i>A</i>	<i>3-25-04</i>	<i>1773</i>	<i>Area</i>	<i>X</i>						
<i>1653 J017H6</i> <i>3-25-04</i>	<i>A</i>	<i>3-25-04</i>	<i>2715</i>	<i>Area</i>	<i>X</i>						
<i>1654 J017J4</i>	<i>A</i>	<i>3-25-04</i>	<i>1663</i>	<i>Area</i>	<i>X</i>						
<i>1655 J017J0</i>	<i>A</i>	<i>3-25-04</i>	<i>1673</i>	<i>Area</i>	<i>X</i>						
<i>1656 J017H7</i> <i>3-25-04</i>	<i>A</i>	<i>3-25-04</i>	<i>2724</i>	<i>Area</i>	<i>X</i>						

ERC/INDUSTRIAL HYGIENE CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

SIGN / PRINT NAMES / USE MILITARY TIME

Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
Mark Cranston / Mark Cranston	3-25-04 1530	MO 425 Locked Room #4	3-25-04 1530
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
Donna Wonders / Donna J. Wonders	3-29-04 1330	SJGALE / S. Gale	3-29-04 1330
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
ERC		FLUOR	
SJGALE / S. Gale	3-29-04 1355	SD Bolling / Stacy D. Bolling	3/29/04 1355
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
SD Bolling / Stacy D. Bolling	3/29/04 1405	N2A Storage	
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
Analysis		MP Grant / M. K. Grant	3-30-04 0800
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
		Remaining filter stored at WSCF fiber count lab for at least 3 months, then discarded at trash.	
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
LABORATORY SECTION	Received By	Title	DATE / TIME
	SD Bolling / Stacy D. Bolling	IH Tech. Mgr.	3/29/04 1355

REVIEWED BY: _____
PRINT/SIGN NAME

DATE: _____

20070575

Bechtel Hanford, Inc.		ERC/INDUSTRIAL HYGIENE CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST									
Collector: <i>Mark Cranston</i>	Company Contact Henry W. Ruby		Telephone No. 373-5600		Project Coordinator Joan H. Kessner			Data Turnaround <i>24 Hr</i>			
Payroll #: <i>73450</i>	Sampling Location <i>100 N // 1304 N</i>		SPECIAL INSTRUCTIONS All relevant COAs must be provided: <i>R 1304 N 5452</i>			SAF No. B00-004; B00-005			Method of Shipment <i>Hand Deliver</i>		
Type of Sample: <i>Area, Asbestos</i>	Emergency Dump Tank		ANALYSIS METHOD (SPECIFIC): <i>NIOSH 7400</i> <i>(Asbestos)</i>			Bill of Lading/Air Bill No. <i>N/A</i>					
Shipped To: <i>WSCF</i>	POSSIBLE SAMPLE HAZARD/REMARKS <i>Asbestos</i>		MATRIX A - AIR WI - WIPE X - OTHER		Preservation (ie., cooling required, etc.)		No		No		
Special Handling and/or Storage <i>N/A</i>	SAMPLE ANALYSIS		Asbestos Airborne		Lead Airborne						
SAMPLE NO.	MATRIX	SAMPLE DATE	VOLUME (L)	Comments							
<i>1657 J017 J5</i>	<i>A</i>	<i>3-26-04</i>	<i>Blank</i>	<i>Blank</i>	<i>X</i>						
<i>1658 J017 J6</i>	<i>A</i>	<i>3-26-04</i>	<i>Blank</i>	<i>Blank</i>	<i>X</i>						
<i>1659 J017 J7</i>	<i>A</i>	<i>3-26-04</i>	<i>1604</i>	<i>Area</i>	<i>X</i>						
<i>1660 J017 K5</i>	<i>A</i>	<i>3-26-04</i>	<i>736</i>	<i>Area</i>	<i>X</i>						
<i>1661 J017 J9</i>	<i>A</i>	<i>3-26-04</i>	<i>1612</i>	<i>Area</i>	<i>X</i>						
<i>1662 J017 K0</i>	<i>A</i>	<i>3-26-04</i>	<i>1618</i>	<i>Area</i>	<i>X</i>						
<i>1663 J017 K1</i>	<i>A</i>	<i>3-26-04</i>	<i>764</i>	<i>Area</i>	<i>X</i>						
<i>1664 J017 K2</i>	<i>A</i>	<i>3-26-04</i>	<i>742</i>	<i>Area</i>	<i>X</i>						
<i>1665 J017 K3</i>	<i>A</i>	<i>3-26-04</i>	<i>759</i>	<i>Area</i>	<i>X</i>						
<i>1666 J017 K4</i>	<i>A</i>	<i>3-26-04</i>	<i>768</i>	<i>Area</i>	<i>X</i>						

ERC/INDUSTRIAL HYGIENE CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

SIGN / PRINT NAMES / USE MILITARY TIME

Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
Mark Cranston / Mark Cranston	3-26-04 1530	MO 425/426 Locked Room #4	3-26-04 1530
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
Duffin S. W. / Duffin S. W.	3-29-04 / 1330	S J GALE / S J GALE	3-29-04 1330
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
S J GALE / S J GALE	3-29-04 1355	S D Bolling / S D Bolling	3/29/04 1355
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
S D Bolling / S D Bolling	3/29/04 1405	NZA / NZA	
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
Analysis		MKGant / MKGant	3-30-04 0800
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
		Remaining filter stored at WSCF fiber count lab for at least 3 months, then discarded at trash.	
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
Relinquished By/Stored:	DATE / TIME	Received By/Stored:	DATE / TIME
LABORATORY SECTION	Received By	Title	DATE / TIME
	S D Bolling	IH Tech Mgr.	3/29/04 1355

REVIEWED BY: _____

PRINT/SIGN NAME

DATE: _____